

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: \_\_\_\_\_

Source: \_\_\_\_\_

Date Processed by STIC: \_\_\_\_\_

10/800,487C  
IPW16  
6/27/2006

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

**FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

**<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

## Raw Sequence Listing Error Summary

### ERROR DETECTED

### SUGGESTED CORRECTION

SERIAL NUMBER:

10/800, 487C

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos     The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
  
- 2      Invalid Line Length     The rules require that a line not exceed 72 characters in length. This includes white spaces.
  
- 3      Misaligned Amino  
    Numbering     The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
  
- 4      Non-ASCII     The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
  
- 5      Variable Length     Sequence(s)      contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
  
- 6      PatentIn 2.0  
    "bug"     A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)             . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
  
- 7      Skipped Sequences  
    (OLD RULES)     Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence:  
                               (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                               (i)     SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
                               (xi)  SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                               This sequence is intentionally skipped  
                               Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
  
- 8      Skipped Sequences  
    (NEW RULES)     Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence.  
                               <210> sequence id number  
                               <400> sequence id number  
                               000
  
- 9      Use of n's or Xaa's  
    (NEW RULES)     ~~Use of n's and/or Xaa's have been detected in the Sequence Listing.~~  
                               ~~Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.~~  
                               ~~In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.~~
  
- 10      Invalid <213>  
    Response     Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item 11 below)
  
- 11      Use of <220>     Sequence(s)      missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules
  
- 12      PatentIn 2.0  
    "bug"     Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
  
- 13      Misuse of n/Xaa     "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFW16

## RAW SEQUENCE LISTING

DATE: 06/27/2006

PATENT APPLICATION: US/10/800,487C

TIME: 14:46:28

Input Set: E:\04-218 (400.148) RevSeqList.txt

Output Set: N:\CRF4\06272006\J800487C.raw

3 <110> APPLICANT: Sirna Therapeutics, Inc.  
4 McSwiggen, James  
6 <120> TITLE OF INVENTION: RNA Interference Mediated Inhibition Of Intercellular  
Adhesion  
7 Molecule (ICAM) Gene Expression Using Short Interfering Nucleic  
8 Acid (siNA)  
10 <130> FILE REFERENCE: 400/148 (MBHB04-218)  
12 <140> CURRENT APPLICATION NUMBER: US 10/800,487C  
13 <141> CURRENT FILING DATE: 2004-03-15  
15 <150> PRIOR APPLICATION NUMBER: US 10/757,803  
16 <151> PRIOR FILING DATE: 2004-01-15  
18 <150> PRIOR APPLICATION NUMBER: US 10/720,448  
19 <151> PRIOR FILING DATE: 2003-11-24  
21 <150> PRIOR APPLICATION NUMBER: US 10/693,059  
22 <151> PRIOR FILING DATE: 2003-10-23  
24 <150> PRIOR APPLICATION NUMBER: US 10/444,853  
25 <151> PRIOR FILING DATE: 2003-05-23  
27 <150> PRIOR APPLICATION NUMBER: US 10/427,160  
28 <151> PRIOR FILING DATE: 2003-04-30  
30 <150> PRIOR APPLICATION NUMBER: PCT/US03/05346  
31 <151> PRIOR FILING DATE: 2003-02-20  
33 <150> PRIOR APPLICATION NUMBER: PCT/US03/05028  
34 <151> PRIOR FILING DATE: 2003-02-20  
36 <150> PRIOR APPLICATION NUMBER: US 60/358,580  
37 <151> PRIOR FILING DATE: 2002-02-20  
39 <150> PRIOR APPLICATION NUMBER: US 60/363,124  
40 <151> PRIOR FILING DATE: 2002-03-11  
42 <150> PRIOR APPLICATION NUMBER: US 60/386,782  
43 <151> PRIOR FILING DATE: 2002-06-06  
45 <150> PRIOR APPLICATION NUMBER: US 60/406,784  
46 <151> PRIOR FILING DATE: 2002-08-29  
48 <150> PRIOR APPLICATION NUMBER: US 60/408,378  
49 <151> PRIOR FILING DATE: 2002-09-05  
51 <150> PRIOR APPLICATION NUMBER: US 60/409,293  
52 <151> PRIOR FILING DATE: 2002-09-09  
54 <150> PRIOR APPLICATION NUMBER: US 60/440,129  
55 <151> PRIOR FILING DATE: 2003-01-15  
57 <150> PRIOR APPLICATION NUMBER: PCT/US02/15876  
58 <151> PRIOR FILING DATE: 2002-05-17  
60 <160> NUMBER OF SEQ ID NOS: 439  
62 <170> SOFTWARE: PatentIn version 3.3  
64 <210> SEQ ID NO: 1  
65 <211> LENGTH: 19  
66 <212> TYPE: RNA

Cpg-7)  
Does Not Comply  
Corrected Diskette Needed.  
Cpg-6)

## RAW SEQUENCE LISTING

DATE: 06/27/2006

PATENT APPLICATION: US/10/800,487C

TIME: 14:46:28

Input Set : E:\04-218 (400.148) RevSeqList.txt

Output Set: N:\CRF4\06272006\J800487C.raw

67 <213> ORGANISM: Artificial Sequence  
69 <220> FEATURE:  
70 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
72 <400> SEQUENCE: 1  
73 gccccagucg acgcugagc 19  
76 <210> SEQ ID NO: 2  
77 <211> LENGTH: 19  
78 <212> TYPE: RNA  
79 <213> ORGANISM: Artificial Sequence  
81 <220> FEATURE:  
82 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
84 <400> SEQUENCE: 2  
85 cuccucugcu acucagagu 19  
88 <210> SEQ ID NO: 3  
89 <211> LENGTH: 19  
90 <212> TYPE: RNA  
91 <213> ORGANISM: Artificial Sequence  
93 <220> FEATURE:  
94 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
96 <400> SEQUENCE: 3  
97 uugcaaccuc agccucgcu 19  
100 <210> SEQ ID NO: 4  
101 <211> LENGTH: 19  
102 <212> TYPE: RNA  
103 <213> ORGANISM: Artificial Sequence  
105 <220> FEATURE:  
106 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
108 <400> SEQUENCE: 4  
109 uauggcuccc agcagcccc 19  
112 <210> SEQ ID NO: 5  
113 <211> LENGTH: 19  
114 <212> TYPE: RNA  
115 <213> ORGANISM: Artificial Sequence  
117 <220> FEATURE:  
118 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
120 <400> SEQUENCE: 5  
121 ccggcccgcg cugcccgca 19  
124 <210> SEQ ID NO: 6  
125 <211> LENGTH: 19  
126 <212> TYPE: RNA  
127 <213> ORGANISM: Artificial Sequence  
129 <220> FEATURE:  
130 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
132 <400> SEQUENCE: 6  
133 acuccugguc cugcucggg 19  
136 <210> SEQ ID NO: 7  
137 <211> LENGTH: 19  
138 <212> TYPE: RNA  
139 <213> ORGANISM: Artificial Sequence

## RAW SEQUENCE LISTING

DATE: 06/27/2006

PATENT APPLICATION: US/10/800,487C

TIME: 14:46:28

Input Set : E:\04-218 (400.148) RevSeqList.txt

Output Set: N:\CRF4\06272006\J800487C.raw

```

141 <220> FEATURE:
142 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
144 <400> SEQUENCE: 7
145 ggcucuguuc ccaggaccu 19
148 <210> SEQ ID NO: 8
149 <211> LENGTH: 19
150 <212> TYPE: RNA
151 <213> ORGANISM: Artificial Sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
156 <400> SEQUENCE: 8
157 uggcaaugcc cagacaucu 19
160 <210> SEQ ID NO: 9
161 <211> LENGTH: 19
162 <212> TYPE: RNA
163 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
166 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
168 <400> SEQUENCE: 9
169 uguguccccc ucaaaaguc 19
172 <210> SEQ ID NO: 10
173 <211> LENGTH: 19
174 <212> TYPE: RNA
175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
180 <400> SEQUENCE: 10
181 cauccugccc cggggaggc 19
184 <210> SEQ ID NO: 11
185 <211> LENGTH: 19
186 <212> TYPE: RNA
187 <213> ORGANISM: Artificial Sequence
189 <220> FEATURE:
190 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
192 <400> SEQUENCE: 11
193 cuccgugcug gugacaugc 19
196 <210> SEQ ID NO: 12
197 <211> LENGTH: 19
198 <212> TYPE: RNA
199 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
204 <400> SEQUENCE: 12
205 cagcaccucc ugugaccag 19
208 <210> SEQ ID NO: 13
209 <211> LENGTH: 19
210 <212> TYPE: RNA
211 <213> ORGANISM: Artificial Sequence
213 <220> FEATURE:

```

## RAW SEQUENCE LISTING

DATE: 06/27/2006

PATENT APPLICATION: US/10/800,487C

TIME: 14:46:28

Input Set : E:\04-218 (400.148) RevSeqList.txt

Output Set: N:\CRF4\06272006\J800487C.raw

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214 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
216 <400> SEQUENCE: 13
217 gcccaaguug uugggcaua                                     19
220 <210> SEQ ID NO: 14
221 <211> LENGTH: 19
222 <212> TYPE: RNA
223 <213> ORGANISM: Artificial Sequence
225 <220> FEATURE:
226 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
228 <400> SEQUENCE: 14
229 agagacccccg uugccuaaa                                     19
232 <210> SEQ ID NO: 15
233 <211> LENGTH: 19
234 <212> TYPE: RNA
235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
240 <400> SEQUENCE: 15
241 aaaggaguug cuccagcaaa                                     19
244 <210> SEQ ID NO: 16
245 <211> LENGTH: 19
246 <212> TYPE: RNA
247 <213> ORGANISM: Artificial Sequence
249 <220> FEATURE:
250 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
252 <400> SEQUENCE: 16
253 uggaacaac cggaaggug                                       19
256 <210> SEQ ID NO: 17
257 <211> LENGTH: 19
258 <212> TYPE: RNA
259 <213> ORGANISM: Artificial Sequence
261 <220> FEATURE:
262 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
264 <400> SEQUENCE: 17
265 guaugaacug agcaaugug                                       19
268 <210> SEQ ID NO: 18
269 <211> LENGTH: 19
270 <212> TYPE: RNA
271 <213> ORGANISM: Artificial Sequence
273 <220> FEATURE:
274 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
276 <400> SEQUENCE: 18
277 gcaagaagau agccaacca                                       19
280 <210> SEQ ID NO: 19
281 <211> LENGTH: 19
282 <212> TYPE: RNA
283 <213> ORGANISM: Artificial Sequence
285 <220> FEATURE:
286 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic

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## RAW SEQUENCE LISTING

DATE: 06/27/2006

PATENT APPLICATION: US/10/800,487C

TIME: 14:46:28

Input Set : E:\04-218 (400.148) RevSeqList.txt

Output Set: N:\CRF4\06272006\J800487C.raw

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288 <400> SEQUENCE: 19
289 aaugugcuau ucaaacugc 19
292 <210> SEQ ID NO: 20
293 <211> LENGTH: 19
294 <212> TYPE: RNA
295 <213> ORGANISM: Artificial Sequence
297 <220> FEATURE:
298 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
300 <400> SEQUENCE: 20
301 ccugauggg cagucaaca 19
304 <210> SEQ ID NO: 21
305 <211> LENGTH: 19
306 <212> TYPE: RNA
307 <213> ORGANISM: Artificial Sequence
309 <220> FEATURE:
310 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
312 <400> SEQUENCE: 21
313 agcuaaaacc uuccucacc 19
316 <210> SEQ ID NO: 22
317 <211> LENGTH: 19
318 <212> TYPE: RNA
319 <213> ORGANISM: Artificial Sequence
321 <220> FEATURE:
322 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
324 <400> SEQUENCE: 22
325 cguguacugg acuccagaa 19
328 <210> SEQ ID NO: 23
329 <211> LENGTH: 19
330 <212> TYPE: RNA
331 <213> ORGANISM: Artificial Sequence
333 <220> FEATURE:
334 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
336 <400> SEQUENCE: 23
337 acggguggaa cuggcaccc 19
340 <210> SEQ ID NO: 24
341 <211> LENGTH: 19
342 <212> TYPE: RNA
343 <213> ORGANISM: Artificial Sequence
345 <220> FEATURE:
346 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
348 <400> SEQUENCE: 24
349 ccuccccucu uggcagcca 19
352 <210> SEQ ID NO: 25
353 <211> LENGTH: 19
354 <212> TYPE: RNA
355 <213> ORGANISM: Artificial Sequence
357 <220> FEATURE:
358 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
360 <400> SEQUENCE: 25

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10/800, 487

6

<210> SEQ ID NO 421  
<211> LENGTH: 21  
<212> TYPE: RNA  
<213> ORGANISM: Artificial Sequence  
<220> FEATURE:  
<223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
<220> FEATURE:  
<221> NAME/KEY: misc\_feature  
<222> LOCATION: (1)..(1)  
<223> OTHER INFORMATION: 5'-3 attached terminal deoxyabasic moiety  
<220> FEATURE:  
<221> NAME/KEY: misc\_feature  
<222> LOCATION: (21)..(21)  
<223> OTHER INFORMATION: 3'-3 attached terminal deoxyabasic moiety  
<220> FEATURE:  
<221> NAME/KEY: misc\_feature  
<222> LOCATION: (20)..(21)  
<223> OTHER INFORMATION: n stands for any nucleotide  
<400> SEQUENCE: 421  
nnnnnnnnnn nnnnnnnnnn n

→ what about n's at  
Location 1-19 ?

They need Explanations.  
pls see Item # 9 on Error  
Summary sheet.

This error appears in Subsequent  
Sequences



RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/800,487C

DATE: 06/27/2006  
TIME: 14:46:31

Input Set : E:\04-218 (400.148) RevSeqList.txt  
Output Set: N:\CRF4\06272006\J800487C.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:421; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21  
Seq#:422; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21  
Seq#:423; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21  
Seq#:424; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21  
Seq#:425; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21  
Seq#:426; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21  
Seq#:427; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21  
Seq#:428; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21  
Seq#:429; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21

## VERIFICATION SUMMARY

DATE: 06/27/2006

PATENT APPLICATION: US/10/800,487C

TIME: 14:46:31

Input Set : E:\04-218 (400.148) RevSeqList.txt

Output Set: N:\CRF4\06272006\J800487C.raw

L:8116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:421 after pos.:0  
L:8149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:422 after pos.:0  
L:8186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:423 after pos.:0  
L:8228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:424 after pos.:0  
L:8267 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:425 after pos.:0  
L:8309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:426 after pos.:0  
L:8348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:427 after pos.:0  
L:8387 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:428 after pos.:0  
L:8429 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:429 after pos.:0